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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/632,795

08/04/2003

Duk-Yong Kim

P56939

5556

7590

03/24/2005

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EXAMINER

GILMAN, ALEXANDER

ART UNIT

PAPER NUMBER

2833

DATE MAILED: 03/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

AK

**Office Action Summary**

Application No.

10/632,795

Applicant(s)

KIM ET AL.

Examiner

Alexander D. Gilman

Art Unit

2833

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --  
**Period for Reply**

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

**Status**

- 1) ☒ Responsive to communication(s) filed on 24 June 2004.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

**Disposition of Claims**

- 4) ☒ Claim(s) 1-5 and 7-17 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 1-5 and 7-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

**Application Papers**

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
 Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
 Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some \* c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
  2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

**Attachment(s)**

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

Art Unit: 2833

## DETAILED ACTION

### *Claim Rejections - 35 USC § 102*

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Claims 1, 2, 4, 5, 9, 12-14, 16, 17 are rejected under 35 U.S.C. 102(e) as being anticipated by Ryman

With regard to claims 1,4, 9, 12, 13 17, Ryman (US 6,721,155) discloses a bias-T apparatus comprising:

a housing ( 12) comprising an input connector (15) to be connected to a groundbase transceiver station and an output connector (16) to be connected to an antenna, said input connector and said output connector integrally formed at opposite sides of the housing, the housing having a housing hole and a fixing hole, the housing hole being formed longitudinally in the housing, the fixing hole connected perpendicularly to the housing hole;

a center conductor (20) inserted in the housing hole and including a first conductor and a second conductor, which have a first connector pin and a second connector pin, respectively, the first connector pin and the second connector pin being respectively inserted inside of the output connector and the input connector, thereby enabling electric connection of a signal between the input connector and the output connector; and

a fixing pin having a first end (30) connected perpendicularly to the center conductor and a second end (34) inserted in the fixing hole, so that direct current power can be supplied from the second end to the output connector.

With regard to claims 2, 5, 14 Ryman discloses the housing has a recess (recess receiving 14).

With regard to claim 16, Ryman discloses a gas tube arrester (60) and diodes (

***Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 3, 7, 8, 10, 11 are rejected under 35 U.S.C. 103(a) as being unpatentable over Ryman in view of Jones et al and Kojima et al or Monnett.

Ryman disclose all of the limitations as applied to claim 1 above, except for conductor shaft the conductor shaft being inserted in the reception tube so that the first conductor and the second conductor are assembled with each other (and function as electrode plates of the capacitor, according to the Specification, p. 9, lines 5, 6), while Ryman disclosing the blocking device capacitor 80.

Jones et al (col. 3, lines 41-45) disclose any coupling combinations which provide capacitance effect. Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the capacitance device, as taught by Jones et al, to simplify the blocking capacitive mechanism.

Ryman also does not disclose anodization one of the reception tube or the shaft.

Kojima et al (US 6,719,813) and Monnett (US 6,791,821) disclose a solid electrolytic capacitor with galvanic anodization (col. 2, lines 66-67 through col. 3, lines 1-3).

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the capacitance device, as taught by Kojima et al, to achieve the required capacitive operational parameters.

Claim 15 is rejected under 35 U.S.C. 103(a) as being unpatentable over Ryman in view of Jones et al and further in view of Sato et al.

Ryman when modified by Jones et al disclose all of the limitations as applied to claims 4, 10, 12 above but does not disclose the EMI filter using coils and dielectric materials.

Sato et al (US 5,206,779) disclose EMI filter using coils and dielectric materials (Fig. 5).

Art Unit: 2833

Therefore, it would have been obvious to one having ordinary skill in the art at the time the invention was made to provide Ryman with the EMI filter, as taught by Sato et al , to effectively suppress the EMI noise.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Alexander D. Gilman whose telephone number is 571 272-2004. The examiner can normally be reached on Monday-Friday, 10:30 a.m. - 8:00 p.m.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Paula A. Bradley can be reached on 571 272-2800 ext. 33. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

03/18/2005

*Alexander Gilman*

**ALEXANDER GILMAN  
PRIMARY EXAMINER**